

WHAT IS CLAIMED IS:

1. An ophthalmic composition dropper tip, comprising:

5 a body having a first end, an opposing second end, and an inner wall defining a conduit extending through the body to pass an ophthalmic composition from a container, which is coupled to the second end of the body, to the first end of the body;

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an ophthalmic composition dispensing element located at the first end of the body, the dispensing element comprising a dispensing orifice of the conduit, the dispensing element being structured to dispense drops of the ophthalmic composition from the body, the drops having a maximum relative deviation of size less than 10 percent.

2. The dropper tip of claim 1, wherein the conduit comprises a dispensing portion defined by a first inner wall portion extending from the dispensing orifice, and a second conduit portion defined by a second inner wall portion extending from the dispensing portion toward the second end of the body, the dispensing portion having a maximum diameter that is greater than a maximum diameter of the second conduit portion.

3. The dropper tip of claim 2, wherein the dispensing portion of the conduit has a length and the diameter of the dispensing portion is substantially constant along the length.

4. The dropper tip of claim 2, wherein the dispensing portion has a length and the diameter of the dispensing portion decreases from the dispensing orifice toward the second conduit portion.

5. The dropper tip of claim 2, wherein the maximum diameter of the second conduit portion is less than a minimum diameter of the dispensing portion.

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6. The dropper tip of claim 1, wherein the dispensing element is structured to dispense drops having a size with a maximum relative deviation less than about 3 percent.

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7. The dropper tip of claim 1, wherein the dispensing element is structured to dispense drops having a size with a maximum relative deviation in a range from about 1 percent to about 3 percent.

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8. The dropper tip of claim 1, wherein the dispensing element has an inner diameter and an outer diameter, the ratio of the inner diameter to the outer diameter being in the range from about 0.5 to 1 to about 0.93 to 1.

9. The dropper tip of claim 8, wherein the ratio of the inner diameter to the outer diameter is greater than 0.75 to 1.

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10. The dropper tip of claim 1, wherein the dispensing element comprises a sidewall forming the

dispensing orifice of the conduit, the dispensing orifice having a diameter, the sidewall having a thickness in a range from about 0.1% of the dispensing orifice diameter to about 20% of the dispensing
5 orifice diameter.

11. The dropper tip of claim 10, wherein the sidewall thickness is between about 9.0% to about 16% of the dispensing orifice diameter.

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12. The dropper tip of claim 1, further comprising a protection member surrounding the dispensing element to protect the dispensing element from contacting an eye when drops are applied thereto.

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13. The dropper tip of claim 12, wherein the protection member is a ring circumscribing the dispensing element.

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14. The dropper tip of claim 12, wherein the protection member extends beyond the dispensing orifice.

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15. The dropper tip of claim 12, wherein the protection member forms a cavity having a bottom surface from which the dispensing element extends.

16. The dropper tip of claim 1, wherein the body has a first longitudinal axis and the dispensing
30 element has a second longitudinal axis, the second longitudinal axis being oriented with respect to the first longitudinal axis at an angle from about zero

degrees to about ninety degrees.

17. The dropper tip of claim 1 attached to a container containing an ophthalmic composition.

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18. An ophthalmic composition dropper tip, comprising:

a body having a first end, an opposing second end, and an inner wall defining a conduit 10 extending through the body to pass an ophthalmic composition from a container, which is coupled to the second end of the body, to the first end of the body, the conduit comprising an ophthalmic composition dispensing portion located at the first end of the 15 body, and an ophthalmic composition flow restrictor portion extending from the dispensing portion towards the second end of the body, the flow restrictor portion being effective in providing dropwise dispensing of the ophthalmic composition; and

20 an ophthalmic composition dispensing element located at the first end of the body, the dispensing element comprising a sidewall coextensive with the innerwall of the conduit and forming a dispensing orifice of the dispensing portion of the conduit, the 25 sidewall having a distal end surface oriented at a substantially ninety degree angle to a longitudinal axis of the dispensing element, and a thickness substantially less than the diameter of the dispensing orifice.

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19. The dropper tip of claim 18, further comprising a protection member extending beyond the

distal end surface of the dispensing element.

20. The dropper tip of claim 18, wherein the dispensing element is structured to dispense drops of 5 the ophthalmic composition, the drops having a maximum relative deviation of size less than about 3 percent.

21. A method for producing an ophthalmic composition dropper tip, comprising:

10 forming a material into a body having a first end, an opposing second end, and an inner wall defining a conduit extending through the body to provide a flow path from the second end to the first end, the first end of the body including an ophthalmic 15 composition dispensing element which comprises a dispensing orifice of the conduit, the dispensing element being formed to dispense drops of the ophthalmic composition from the body, the drops having a maximum relative deviation of size less than 10 20 percent.